Amendments to the Specification:

Please replace the paragraph beginning at page 9, line 7, with the following amended paragraph:

Figure 2 shows the first face 115 face of first reactor plate 200, which forms a portion of the reaction chamber 119. The first reactor plate 200 is preferably rectangular in shape and has two ports at each end thereof. At one end, a solution inlet 236 ~~for~~ and a coolant outlet 240 are provided. At the opposite end, a solution outlet 237 and a coolant inlet 241 are provided. The rim 250 and gasket 400 surrounds the coolant inlet 241 and coolant outlet 240 to prevent the coolant from entering the reaction chamber 119. A solution flow field 232 preferably having a number of open-faced parallel tortuous channels 235 is formed within the first face 115 of the first reactor plate 200. The channels 235 extend between the solution inlet 236 and the solution outlet 237. The solution inlet 236 and solution outlet 237 for chemical hydride solution communicate with the first and second solution connection ports 314, 315, respectively.

PAGE 6/21 * RCVD AT 2/17/2005 4:54:39 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/7 * DNIS:8729306 * CSID:9058140031 * DURATION (mm-ss):05-40

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